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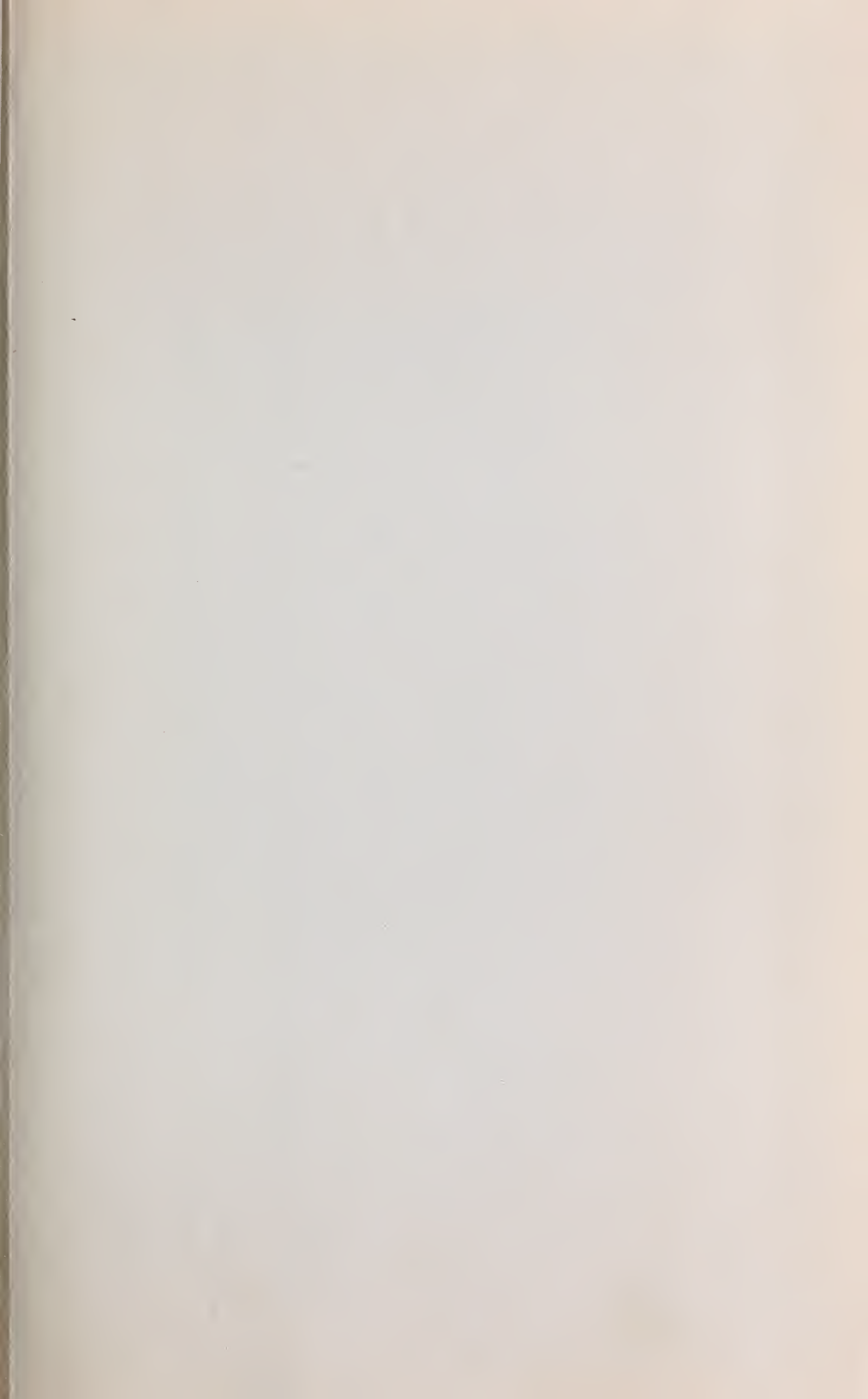
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Issued September 1943

**UNITED STATES DEPARTMENT OF AGRICULTURE**  
**AGRICULTURAL RESEARCH ADMINISTRATION**  
**SERVICE AND REGULATORY ANNOUNCEMENTS**  
**BUREAU OF ANIMAL INDUSTRY**

**AUGUST 1943**

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the Bureau, establishments at which official inspection work is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year (foreign, 60 cents). A supply will be sent to each official in charge of a station or branch of the Bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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**LIVESTOCK INSPECTED WHEN OFFERED FOR IMPORTATION,  
JULY 1943**

Ports of entry	Cattle	Swine	Sheep	Goats	Horses	Mules and asses
Mexican border ports.....	4, 570				46	17
Canadian border ports.....	7, 199	110	121	7	2, 924	
Total:						
July 1943.....	11, 769	110	121	7	2, 970	17
July 1942.....	30, 517	55	284	5	696	12

Refused entry: 16 cattle; 59 horses; 10 asses. (These figures are not included in the table above.)



# SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, JULY 1943

State or Territory	Tuberculin tests during month			Accredited herds <sup>1</sup>	Herds under supervision	Inspector in charge	State official
	Cattle tested	Infected premises	Cattle re-tested				
Alabama	671	1	1	630	271,445	R. E. Jackson	I. S. McAdory, Auburn.
Arizona	726	0	0	4	12,593	F. L. Schneider	T. B. Jones, Phoenix.
Arkansas	1,267	3	4	0	228,256	A. W. Rice	Joe S. Campbell, Little Rock.
California	53,712	21	56	11	74,669	H. M. O'Rear	C. U. Duckworth, Sacramento.
Colorado	2,493	5	10	28	60,846	Edgar Heiny	R. M. Gow, Denver.
Connecticut	6,549	4	9	17,644	18,920	R. L. Smith	Claude Jones, Hartford.
Delaware	2,656	0	0	2,212	8,561	O. L. Lockwood	Harry McDaniel, Jr., Dover.
Dist. of Columbia	0	0	0	2	17	A. E. Wight	J. V. Knapp, Tallahassee.
Florida	6,420	5	11	47	67,656	T. H. Applewhite	Tom Linder, Atlanta.
Georgia	2,066	0	0	72	242,774	W. C. Dendinger	Scott B. Brown, Boise.
Idaho	805	3	3	28	51,270	F. F. Fischer	C. E. Fidler, Springfield.
Illinois	74,411	35	134	711	243,779	A. K. Kuttler	J. L. Axby, Indianapolis.
Indiana	13,876	13	16	1,238	147,750	W. A. Sullivan	C. C. Franks, Des Moines.
Iowa	11,447	17	38	510	194,440	J. A. Barger	Will J. Miller, Topeka.
Kansas	2,555	5	6	162	171,032	Ralph Graham	L. L. Breeck, Frankfort.
Kentucky	4,190	1	34	29	163,867	E. E. Coshaw	E. P. Flower, Baton Rouge.
Louisiana	752	1	1	0	148,804	W. A. McDonald	D. P. Corbett, Augusta.
Maine	1,833	0	0	167	43,817	B. J. Cadz	Mark Welsh, Baltimore.
Maryland	17,172	7	30	14,092	44,075	O. L. Lockwood	Jas. DeNormandie, Boston.
Massachusetts	8,989	3	7	20,695	21,119	E. M. Aldrich	C. H. Clark, Lansing.
Michigan	24,955	22	28	65	207,087	C. H. Hays	Ralph L. West, St. Paul.
Minnesota	61,692	28	37	690	188,082	W. J. Fretz	E. S. Brashier, Jackson.
Mississippi	1,976	0	0	4	260,179	Hartwell Robbins	J. W. George, Jefferson City.
Missouri	2,578	0	0	60	239,687	E. C. Hughes	W. J. Butler, Helena.
Montana	2,619	1	1	20	73,033	G. W. Cronen	J. R. Snyder, Lincoln.
Nebraska	3,382	8	46	25	135,277	J. W. Murdoch	W. B. Earl, Reno.
Nevada	17	0	0	2	3,441	S. H. Still	R. W. Smith, Concord.
New Hampshire	1,787	2	2	16,014	17,821	E. M. Aldrich	R. A. Hendershott, Trenton.
New Jersey	8,476	9	52	13,743	15,965	J. R. Porteus	Sam McCue, Albuquerque.
New Mexico	163	1	1	2	25,450	F. L. Schneider	E. T. Farler, Albany.
New York	83,286	59	143	122,148	129,958	H. B. Leonard	William Moore, Raleigh.
North Carolina	3,272	0	0	519	256,689	A. A. Husman	T. O. Brandenburg, Bismarck.
North Dakota	1,679	3	12	53	68,003	F. C. Driver	F. L. Carr, Columbus.
Ohio	8,391	5	5	616	240,296	A. J. DeFosset	D. H. Ricks, Oklahoma City.
Oklahoma	4,617	3	5	16	276,311	C. H. Fauks	W. H. Lytle, Salem.
Oregon	9,615	31	49	2,113	226,142	S. B. Foster	C. P. Bishop, Harrisburg.
Pennsylvania	26,239	21	69	6,761	165,895	J. B. Reidy	J. S. Barber, Providence.
Rhode Island	1,652	5	6	2,379	2,528	E. M. Aldrich	W. K. Lewis, Columbia.
South Carolina	698	0	0	95	56,855	W. K. Lewis	R. S. Robinson, Pierre.
South Dakota	14,637	13	18	4	73,365	Neil Plank	C. E. Kord, Nashville.
Tennessee	1,254	0	0	22	294,938	H. L. Fry	E. A. Grist, Fort Worth.
Texas	13,454	2	9	62	372,281	H. L. Darby	J. I. Curtis, Salt Lake City.
Utah	9,716	37	43	0	87,311	F. H. Melvin	E. H. Jones, Montpelier.
Vermont	8,116	7	12	16,888	22,595	N. H. Howlett	H. C. Givens, Richmond.
Virginia	8,779	7	29	480	199,500	H. S. Miller	M. O. Barnes, Olympia.
Washington	3,536	4	5	12	82,593	J. C. Exline	T. C. Green, Charleston.
West Virginia	3,442	2	3	613	115,679	H. M. Newton	V. S. Larson, Madison.
Wisconsin	87,935	37	176	4,667	183,138	J. S. Healy	H. D. Port, Cheyenne.
Wyoming	2,241	5	5	2	20,603	W. E. Logan	E. H. Willers, Honolulu.
Hawaii	0	0	0	0	1,800	A. H. Julien	Fernando A. Villamil, San Juan.
Puerto Rico	10,481	3	7	0	62,568	E. E. Maas	Ralph L. Williams, Christiansted.
Virgin Islands	0	0	0	0	420	do.	
Total	623,305	439	1,123	246,357	6,321,180		

<sup>1</sup> All States are 100 percent modified accredited. Puerto Rico and the Virgin Islands are also in the modified accredited area.



# SUMMARY OF BRUCELLOSIS (BANG'S DISEASE) WORK IN COOPERATION WITH STATES, JULY 1943<sup>1</sup>

State or Territory	Tests of blood samples during month		Tests of herds containing reactors				Calves vaccinated during month <sup>3</sup>	Modified accredited counties	Total accredited		Herds under supervision	Total cattle on waiting list
	Herds	Cattle	Herds	Cattle	Reactors				Herds	Cattle		
					For slaughter	Held in calflood-vac- cinated herds <sup>2</sup>						
Alabama.....	1, 476	16, 383	195	7, 164	700	81	280	36	219	9, 273	159, 436	32, 013
Arizona.....	127	1, 133	14	165	34	0	77	0	5	331	4, 319	1, 000
Arkansas.....	404	5, 829	86	2, 959	224	0	147	64	0	0	219, 378	0
Colorado.....	66	785	19	305	1	45	104	0	16	690	2, 949	6, 585
Connecticut.....	172	2, 523	24	551	115	0	57	0	428	10, 185	823	0
Delaware.....	194	2, 608	23	391	81	2	86	1	324	7, 428	6, 487	55
Florida.....	609	14, 704	80	5, 746	163	63	390	1	224	14, 419	27, 174	0
Georgia.....	1, 429	10, 781	90	3, 550	330	0	0	65	31	2, 440	129, 025	205, 458
Idaho.....	606	5, 020	62	867	295	12	231	8	762	12, 304	44, 383	0
Illinois.....	1, 899	16, 534	526	6, 971	255	635	1, 140	0	247	6, 380	20, 847	19, 477
Indiana.....	63	768	8	132	41	0	0	0	1, 207	23, 783	5, 048	1, 303
Iowa.....	591	7, 731	224	3, 708	699	0	151	0	2, 651	43, 067	29, 714	1, 896
Kansas.....	236	3, 479	55	903	187	0	0	0	502	12, 587	6, 863	1, 893
Kentucky.....	222	3, 923	51	992	79	20	36	0	107	2, 392	36, 895	1, 740
Louisiana.....	802	6, 707	66	1, 949	189	0	710	21	0	0	64, 897	14, 704
Maine.....	1, 093	7, 709	102	1, 123	195	0	152	5	249	5, 206	20, 805	0
Maryland.....	480	6, 805	104	2, 144	191	63	369	6	2, 942	52, 472	24, 578	301
Massachusetts.....	2	12	1	11	0	4	97	0	91	4, 011	333	382
Michigan.....	1, 214	11, 306	180	2, 044	345	66	570	27	864	19, 330	28, 420	1, 950
Minnesota.....	2, 223	34, 371	198	3, 748	719	0	0	21	236	7, 544	90, 853	24, 832
Mississippi.....	934	5, 819	41	1, 401	85	0	0	5	112	3, 376	7, 902	0
Missouri.....	873	9, 036	147	2, 242	324	0	0	0	20	1, 472	88, 295	0
Montana.....	182	2, 241	43	833	98	22	183	0	15	856	2, 563	0
Nebraska.....	65	814	19	275	59	0	28	0	79	1, 824	9, 404	0
Nevada.....	20	425	5	229	28	31	88	0	42	1, 815	265	0
New Hampshire.....	874	7, 742	162	1, 842	310	0	0	0	6, 911	57, 263	13, 359	1, 458
New Jersey.....	201	4, 836	28	1, 054	42	4	160	0	690	9, 609	1, 331	0
New Mexico.....	200	2, 106	16	296	39	0	37	0	14	578	10, 579	2, 000
New York.....	1, 235	28, 251	800	22, 899	13	4, 260	2, 361	0	1, 422	40, 712	11, 598	200, 000
North Carolina.....	868	12, 079	61	3, 383	128	0	0	100	598	25, 624	249, 084	0
North Dakota.....	695	12, 843	111	3, 950	402	43	262	26	22	975	54, 510	158, 317
Ohio.....	1, 011	10, 713	217	3, 193	548	1	193	6	2, 700	50, 220	60, 933	32, 000
Oklahoma.....	255	4, 644	71	1, 915	204	0	142	0	671	13, 922	46, 487	2, 113
Oregon.....	1, 572	11, 924	64	1, 833	289	1	10	17	3	117	106, 178	0
Pennsylvania.....	3, 535	34, 435	388	7, 320	987	0	378	21	6, 777	140, 467	76, 358	192, 668
Rhode Island.....	3	63	2	57	4	1	28	0	37	668	93	0
South Carolina.....	425	3, 156	34	1, 099	75	3	3	9	76	5, 374	59, 910	4, 000
South Dakota.....	68	781	22	417	41	37	210	0	47	1, 185	2, 246	1, 000
Tennessee.....	117	3, 841	60	2, 444	201	96	500	7	415	14, 937	46, 240	750
Texas.....	96	5, 451	38	4, 590	172	6	240	0	1, 000	12, 903	1, 960	0
Utah.....	78	1, 048	31	614	0	112	164	2	0	0	33, 377	0
Vermont.....	363	3, 575	113	1, 939	0	371	3, 517	0	586	15, 761	3, 904	62, 450
Virginia.....	1, 037	10, 239	91	4, 259	238	6	67	77	195	12, 352	191, 347	83, 471
Washington.....	1, 302	10, 707	100	3, 214	273	6	1, 135	18	0	0	68, 883	0
West Virginia.....	933	6, 738	41	855	80	0	132	31	265	10, 093	72, 594	0
Wisconsin.....	1, 136	24, 562	346	9, 633	1, 192	0	431	8	6, 665	189, 465	82, 422	18, 990
Wyoming.....	15	302	5	112	6	17	25	0	6	452	3, 583	0
Puerto Rico.....	25	762	5	220	7	4	56	0	0	0	28	800
Total.....	32, 026	378, 234	5, 169	127, 541	10, 688	6, 012	14, 747	582	40, 473	845, 862	2, 208, 660	1, 073, 606

<sup>1</sup> Officials in charge of brucellosis work are the same as those listed in summary of tuberculosis-eradication work.

<sup>2</sup> Nonvaccinated reactors held during the month.

<sup>3</sup> Calves in experimental herds not included.

## BIOLOGICAL PRODUCTS PREPARED UNDER LICENSES, JULY 1943

*Anti-hog-cholera serum*

Period	Preserved	Completed	Released	Destroyed
	Cc.	Cc.	Cc.	Cc.
July 1943 .....	160,000, 294	170,822, 902	223,858, 630	1,078,759
July 1942 .....	135,377, 075	144,703, 098	191,554, 220	741,979
7 months ended—				
July 1943 .....	1,067,383, 864	1,073,201, 385	1,129,383, 215	5,868,030
July 1942 .....	856,729, 165	850,334, 680	886,829, 590	4,180,821

*Hog-cholera virus*

Period	Produced			Destroyed	
	Simulta- neous	Hyperim- munizing	Inoculating	Simulta- neous	Hyperim- munizing
	Cc.	Cc.	Cc.	Cc.	Cc.
July 1943 .....	20,970,358	36,465,095	222,626	485,991	1,689,226
July 1942 .....	14,593,295	29,975,582	144,780	527,772	1,240,747
7 months ended—					
July 1943 .....	91,304,959	226,907,077	1,222,042	3,002,758	9,421,515
July 1942 .....	75,735,990	177,434,133	861,752	3,011,756	8,090,068

## INSPECTIONS AND TESTS IN THE PRODUCTION OF ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS UNDER LICENSES, JULY 1943

Period	Animal inspections	Animal rejections	Pigs inocu- lated	Hogs hyper- eyed	Tests supervised	
					Serum	Virus
July 1943 .....	542,166	7,623	60,302	27,520	955	567
July 1942 .....	434,831	5,241	44,634	23,726	767	472
7 months ended—						
July 1943 .....	3,230,561	42,514	315,206	167,124	4,768	2,412
July 1942 .....	2,602,600	34,363	248,072	137,249	3,602	2,204

## LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, JULY 1943

License No. 9, was issued July 21, 1943, to Lederle Laboratories, Inc., 30 Rockefeller Plaza, New York, N. Y., for pasteurella-pseudodiphthericum bacterin.

License No. 93, was issued July 8, 1943, to The Corn States Serum Co., 1124 Harney Street, Omaha, Nebr., for normal serum.

License No. 212, was issued July 9, 1943, to Crockett Laboratories Co., 147 Ralph Street, San Antonio, Tex., for blackleg bacterin and hemorrhagic-septicemia bacterin.

## PERMIT ISSUED FOR BIOLOGICAL MATERIAL, JULY 1943

Special permit was issued July 6, 1943, to the Department of Pathology and Tropical Medicine, Harvard Medical School, Boston, Mass., to import one shipment of material (organisms or vectors) from Africa, under the provisions of Amendment 14 to B. A. I. Order 276.

**BIOLOGICAL PRODUCTS, OTHER THAN ANTI-HOG-CHOLERA SERUM  
AND HOG-CHOLERA VIRUS, PRODUCED BY LICENSED ESTABLISH-  
MENTS DURING FISCAL YEAR ENDED JUNE 30, 1943**

ANTITOXINS		<i>Cubic centimeters</i>
Antivenin.....	.....	46, 200
Botulinus.....	.....	826, 950
Tetanus antitoxin.....	.....	1, 975, 652
Total.....	.....	2, 848, 802

SERUMS		
Abortifacient serum (canine).....	.....	2, 160
Antianthrax serum.....	.....	9, 315, 750
Antibacterial serum (bovine).....	.....	1, 987, 900
Antibacterial serum (canine).....	.....	1, 352, 700
Antibacterial serum (equine).....	.....	1, 230, 055
Antibacterial serum (feline).....	.....	203, 570
Antibacterial serum (porcine).....	.....	128, 700
Antiblackleg serum.....	.....	249, 350
Anti-bronchisepticus-bacillus serum.....	.....	17, 850
Anti-bronchisepticus-coli-pasteurella serum.....	.....	328, 600
Anti-bronchisepticus-streptococcus-typhimurium serum.....	.....	167, 350
Anti-canine-distemper serum.....	.....	9, 473, 420
Anti-coli-enteritidis-pasteurella serum.....	.....	458, 600
Anti-colon-bacillus serum.....	.....	115, 540
Antiencephalomyelitis serum:		
Eastern.....	.....	199, 700
Western.....	.....	1, 069, 662
Eastern and western.....	.....	33, 250
Anti-feline-distemper serum.....	.....	247, 530
Anti-hemorrhagic-septicemia serum.....	.....	17, 199, 660
Antileptospira serum.....	.....	334, 700
Anti-pasteurella-pseudodiphthericum serum.....	.....	772, 000
Antistreptococcus serum.....	.....	131, 910
Anti-swine-erysipelas serum.....	.....	47, 630, 180
Gonadin serum.....	.....	93, 800
Normal serum:		
Bovine origin.....	.....	308, 300
Canine origin.....	.....	372, 200
Equine origin.....	.....	1, 563, 250
Porcine origin.....	.....	45, 000
Total.....	.....	95, 032, 687

AGGRESSINS		<i>Disks</i>	<i>Cubic centimeters</i>
Blackleg cultural aggressin.....	.....	46, 780	6, 425, 375
Blackleg natural aggressin.....	.....		7, 914, 675
Hemorrhagic-septicemia aggressin.....	.....		5, 929, 600
Total.....	.....	46, 780	20, 269, 650

DIAGNOSTICS		<i>Disks</i>	<i>Cubic centimeters</i>
Avian tuberculin.....	.....		7, 340
Mallein:			
Intradermic.....	.....		309
Ophthalmic.....	355		3, 945
Subcutaneous.....	.....		933
Tuberculin:			
Intradermic.....	.....		170, 024
Ophthalmic.....	.....		733
Subcutaneous.....	.....		41, 162
Pullorin.....	.....		200
Total.....	.....	355	224, 646

## TOXOIDS

	<i>Cubic centimeters</i>
Straphlococcus aureus toxoid.....	37, 510
Tetanus toxoid.....	1, 444, 620
Total.....	1, 482, 130

## VACCINES AND VIRUSES

	<i>Milligrams</i>	<i>Disks</i>	<i>Cubic centimeters</i>
Anthrax spore vaccine.....		1, 480	10, 432, 985
Blackleg tissue vaccine.....		1, 009, 760	14, 153, 037
Brucella-abortion vaccine.....			1, 587, 987
Canine-distemper vaccine.....			53, 732
Canine-distemper virus.....	302, 240		
Encephalomyelitis vaccine:			
Eastern.....			109, 666
Western.....			5, 625, 971
Eastern and western.....			871, 174
Erysipelothrix-rhusiopathiae vaccine.....			1, 557, 500
Feline-distemper vaccine.....			129, 076
Fowl-laryngotracheitis vaccine:			
Chick-embryo origin.....	10, 611, 000		
Chicken origin.....	760, 760		
Fowl-pox vaccine:			
Chick-embryo origin.....	7, 538, 150		
Chicken origin.....	8, 250, 910		
Ovine-cethyma vaccine.....	1, 747, 730		
Pigeon-pox vaccine.....	3, 340, 430		
Chick-embryo origin.....	2, 683, 140		
Pigeon origin.....	657, 290		
Rabies vaccine.....			6, 616, 925
Wart vaccine.....			367, 550
Total.....	32, 551, 220	1, 011, 240	41, 505, 603

## BACTERINS

	<i>Disks</i>	<i>Cubic centimeters</i>
Anthrax bacterin.....		1, 352, 400
Autogenous bacterin.....		546, 885
Aviscpticus-gallinarum bacterin.....		15, 802, 045
Blackleg bacterin.....		77, 495, 370
Bronchisepticus bacillus bacterin.....		18, 868
Bronchisepticus-coli-pasteurella bacterin.....		125, 842
Bronchisepticus-staphylococcus-streptococcus bacterin.....	20, 752	16, 650
Bronchisepticus-streptococcus bacterin.....		35, 464
Clostridium chauvei-septicus bacterin.....		5, 951, 845
Clostridium chauvei-welchii bacterin (export only).....		1, 013, 501
Clostridium-hemolyticum bacterin.....		2, 288, 605
Clostridium novyi bacterin.....		275, 600
Coli-enteritidis bacterin.....		898, 625
Coli-enteritidis-pasteurella bacterin.....		228, 865
Coli-staph-strep bacterin.....		309, 670
Colon-bacillus bacterin.....		85, 700
Felisepticus-bacillus bacterin.....		4, 072
Gallinarum-typhimurium bacterin.....		1, 099, 370
Hemorrhagic-septicemia bacterin.....		54, 938, 915
Pasteurella-avicida bacterin.....		3, 295, 880
Pasteurella-pseudodiphthericum bacterin.....		12, 682, 605
Pasteurella-salmonella cholerasuis bacterin.....		2, 075, 525
Salmonella-abortivoquina bacterin.....		34, 764
Salmonella-cholerasuis bacterin.....		1, 020, 025
Salmonella typhimurium bacterin.....		113, 315
Staphylococcus bacterin.....		41, 331
Staphylococcus-streptococcus bacterin.....		766, 895
Streptococcus bacterin.....		104, 220
Total.....	20, 752	182, 622, 852



## MIXED BACTERINS

*Cubic  
centimeters*

Mixed bacterin (avian)-----	24, 101, 190
Mixed bacterin (bovine)-----	40, 673, 136
Mixed bacterin (canine)-----	322, 681
Mixed bacterin (equine)-----	3, 103, 323
Mixed bacterin (feline)-----	62, 842
Mixed bacterin (lepine)-----	25, 135
Mixed bacterin (ovine)-----	5, 767, 165
Mixed bacterin (porcine)-----	3, 230, 375
Total-----	77, 285, 847
<hr/>	
Grand total:	
Cubic centimeters-----	421, 272, 217
Disks-----	1, 079, 127
Milligrams-----	32, 551, 220

### DIVISION OF TICK ERADICATION AND SPECIAL DISEASES AND INTERSTATE INSPECTION DIVISION CONSOLIDATED

A consolidation of the Division of Tick Eradication and Special Diseases and the Interstate Inspection Division became effective September 1, 1943. The new division, of which W. M. MacKellar is in charge and Rudolph Snyder assistant in charge, is designated as the Interstate Inspection Division.

### EDUCATIONAL COUNSELOR

The attention of Bureau personnel is called to the availability of a Bureau educational counselor, with whom interested employees may discuss further educational work. Thomas H. Bartilson, Assistant Chief of the Animal Husbandry Division, has been designated Educational Counselor for the Bureau. Inquiries addressed to him at Washington will receive prompt attention and the advice of specialists in the particular technical field concerned will be obtained. While not attempting to cover the whole counseling field, it is our desire to be as helpful as possible to any Bureau personnel who desire to discuss the planning of further educational work.

### AMENDMENTS TO DEPARTMENT REGULATIONS

The following amendments to the regulations of the Department have been issued:

- Amendment 167, covering regulation 1114.
- Amendment 168, covering regulations 2121 and 2157.
- Amendment 169, covering regulations 3171 to 3175.
- Amendment 170, covering regulations 4223 to 4228.

### NEW PUBLICATIONS OF THE BUREAU

[The Bureau keeps no mailing list for sending publications to individual employees, but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

Miscellaneous Publication 523. Swine Breeding Research at the Regional<sup>1</sup> Swine Breeding Laboratory. By W. A. Craft, director of the Regional Swine Breeding Laboratory, Ames, Iowa. Pp. 14, illus.

## ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY

Chief: A. W. MILLER.

Assistant Chief: HUGH C. MCPHEE.

Assistant Chief: HARRY W. SCHOENING.

Assistant Chief: PAUL E. HOWE.<sup>1</sup>

Business Manager: J. R. COHRAN.

Assistant Business Manager: N. A. OLMSTEAD.

Assistant to Chief: D. S. BURCH.

Animal Disease Station: ADOLPH EICHHORN, *Director*.

Animal Husbandry Division: HUGH C. MCPHEE, *Head Animal Husbandman in charge*.

Field Inspection Division: S. O. FLADNESS, *Principal Veterinarian in charge*.

Interstate Inspection Division: RUDOLPH SNYDER, *Senior Veterinarian, acting in charge*.

Pathological Division: HARRY W. SCHOENING, *Principal Veterinarian in charge*.

Division of Tick Eradication and Special Diseases: W. M. MACKELLAR, *Principal Veterinarian in charge*.

Tuberculosis Eradication Division: A. E. WIGHT, *Principal Veterinarian in charge*.

Division of Virus-Serum Control: D. I. SKIDMORE, *Principal Veterinarian in charge*.

Zoological Division: BENJAMIN SCHWARTZ, *Principal Zoologist in charge*.

<sup>1</sup> On military furlough.







